

**Appendix 2** Demographic and clinical characteristics of the patients included in the chest radiograph cohort

<b>Numbers included</b>	
<b>Number included in the quality improvement project</b> (see Appendix 1, Thorax website)	503
<b>Number of patients with a chest radiograph reported by a consultant radiologist or respiratory physician and full data for all four tools</b>	218
<b>Demographics</b>	
<b>Sex</b>	49% male (n = 107)
<b>Age</b>	Median = 73 years (range 16 to 97) Age over 65 years = 62% (n = 136)
<b>Living in own home</b>	86% (n = 188)
<b>Living alone</b>	29% (n = 63)
<b>Clinical characteristics</b>	
<b>Antibiotic from GP prior to admission</b>	39% (n = 75/191)
<b>CRP &gt;50</b>	79% (n = 154/196)
<b>Severity assessment on admission</b>	
<b>CURB65 score</b>	
<b>0 or 1</b>	39% (n = 85)
<b>2</b>	25% (n = 54)
<b>3 or more</b>	36% (n = 79)
<b>Respiratory rate ≥30/minute</b>	26% (n = 56)
<b>Systolic blood pressure &lt;90mmHg</b>	6% (n = 13)
<b>Diastolic blood pressure ≤60mmHg</b>	25% (n = 54)
<b>Pulse ≥125/minute</b>	11% (n = 23)
<b>Pulse oximetry &lt;92% (any FiO<sub>2</sub>)</b>	34% (n = 74)
<b>Blood urea &gt;7mmol/l</b>	55% (n = 120)
<b>New confusion</b>	27% (n = 58)
<b>% without co-morbidity</b>	37% (n = 81)
<b>% with asthma/COPD</b>	38.5% (n = 84)
<b>Initial antibiotic regimen</b>	
<b>Broad spectrum beta-lactam + macrolide</b>	52% (n = 114)
<b>Narrow spectrum beta-lactam + macrolide</b>	30% (n = 66)
<b>Beta-lactam monotherapy</b>	8% (n = 18)
<b>Macrolide monotherapy</b>	1.5% (n = 3)
<b>Levofloxacin</b>	2% (n = 4)
<b>Others</b>	6% (n = 13)
<b>Outcomes</b>	
<b>% of patients transferred to the intensive care unit</b>	3% (n = 7)
<b>30-day post admission mortality</b>	14% (n = 30)
<b>Length of hospital stay (excludes deaths)</b>	Median = 5 days (range 0 to 59)